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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re U.S. Patent Application

Applicant: Singer et al.

Serial No.: 09/640,204

Filing Date: August 16, 2000

For: ITERATIVE MMSE EQUALIZATION-
DECODER SOFT INFORMATION
EXCHANGE DECODING METHOD AND
DEVICE

Art Unit: 2182

Examiner: Unassigned

) I hereby certify that this paper is being deposited with
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) 8/27/01
) Date Registration No. 35132
) F-CLASS WCM
) Appr. February 10, 1998
) RECEIVED Attorney for Applicant

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INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

In accordance with 37 C.F.R. §§1.56, 1.97 and 1.98, Applicants through
counsel herewith submit copies of the publications as set forth in the attached form PTO-
1449 as follows:

OTHER DOCUMENTS

- (1) Hidekazu Murata, Susumu Yoshida, and Tsutomu Takeuchi, *Performance of Adaptive Equalizer Using Iterative Application of Viterbi Algorithm*, Electronics and Communications in Japan, Part 1, Vol. 77, No. 4, p. 103-110, 1994.
- (2) Dan Raphaeli, Yoram Zarai, *Combined Turbo Equalization and Turbo Decoding*, Tel Aviv University, p. 639-643, 1997 IEEE.

- (3) Dan Raphaeli and Yoram Zarai, *Combined Turbo Equalization and Turbo Decoding*, IEEE Communications Letters, Vol. 2, No. 4, p. 107-109, April 1998.
- (4) Daniel Yellin, Alexander Vardy, and Ofer Amrani, *Joint Equalization and Coding for Intersymbol Interference Channels*, IEEE Transactions on Information Theory, Vol. 43, No. 2, p. 409-425, March 1997.
- (5) L. Vandendorpe, O. Van de Wiel, *Performance Analysis of Linear Joint Multiple Access Interference Cancellation-Equalization For Asynchronous Multitone CDMA*, p. 537-541, 1995 IEEE.
- (6) Mao-Ching Chiu and Chi-chao Chao, *Performance of Joint Equalization and Trellis-Coded Modulation on Multipath Fading Channels*, IEEE Transactions on Communications, Vol. 43, No.2/3/4, p. 1230-1234, February/March/April 1995.
- (7) Joachim Hagenauer and Max Winklhofer, *The Analog Decoder*, ISIT 1998, Cambridge, MA, Aug. 16-21, p. 145, 1998 IEEE.
- (8) Sirikiat Lek Ariyavisitakul and Ye (Geoffrey) Li, *Joint Coding and Decision Feedback Equalization for Broadband Wireless Channels*, IEEE Journal on Selected Areas in Communications, Vol. 16, No. 9, p. 1670-1678, December 1998.
- (9) Gerhard Bauch, Volker Franz, *Iterative Equalization and Decoding for the GSM - System*, p. 2262-2266, 1998 IEEE.
- (10) Cheolwoo You and Daesik Hong, *Nonlinear Blind Equalization Schemes Using Complex-Valued Multilayer Feedforward Neural Networks*, IEEE Transactions on Neural Networks, Vol. 9, No. 6, p. 1442-1455, November 1998.
- (11) Achilleas Anastasopoulos and Keith M. Chugg, *Iterative Equalization/Decoding of TCM for Frequency-Selective Fading Channels*, p. 177-181, 1998 IEEE.
- (12) Cheolwoo You and Daesik Hong, *Blind Adaptive Equalization Techniques Using the Complex Multi-Layer Perceptron*, p. 1340-1344, 1996 IEEE.
- (13) Pierre R. Chevillat and Evangelos Eleftheriou, *Decoding of Trellis-Encoded Signals in the Presence of Intersymbol Interference and Noise*, IEEE Transactions on Communications, Vol. 37, No. 7, p.669-676, July 1989.

- (14) Jong Il Park, Stephen B. Wicker and Henry L. Owen, *Concatenation of MLSE Equalizer and Viterbi Decoder for TDMA Cellular Systems*, p. 723-727.
- (15) Catherine Douillard, Michel Jezequel, Claude Berrou, Annie Picart, Pierre Didier, Alain Glavieux, *Iterative Correction of Intersymbol Interference: Turbo-Equalization*, p. 507-511, Vol. 6, No. 5, September-October 1995.
- (16) Xiaodong Wang and H. Vincent Poor, Princeton University, *Iterative (Turbo) Soft Interference Cancellation and Decoding for Coded CDMA*, p. 1-29.

REMARKS

Applicants respectfully request that the Examiner consider the above-listed documents in the examination of this application and list these documents of record in the application.

Respectfully submitted,

GREER, BURNS & CRAIN, LTD.

By



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